

LUTIKOVA, O. T., IVANENKO, A. I.

"The utilization of malignant tumors of animals for virological and biochemical studies."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

LUMEN, N. I.

LUMEN, N. I.: "Investigation of the force of the flow of grain onto flat obstacles." Higher Education USSR. Moscow Technological Inst of the Food Industry. Moscow, 1955.
(Dissertation for the Degree of Candidate in Technical Sciences).

SO: Knizhnaya Istoris', No 23, 1956

LUTKIN, N.I.

DENIN, G., inzhener; LUTKIN, N., kandidat tekhnicheskikh nauk.

Removing coarse impurities from grain on flat screens. Muk .-elev.
prom. 22 no.9:9-11 S '56. (MLTA 10:8)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktov yego pererabotki.
(Grain--Cleaning)

DEMIDOV, A., kandidat tekhnicheskikh nauk; LUTKIN, N., kandidat tekhnicheskikh nauk; DEMIN, G., kandidat tekhnicheskikh nauk; MALIS, A., kandidat tekhnicheskikh nauk; PETRENKO, A., inzhener; GERLAKH, L., inzhener; FROLOV, N., inzhener.

Mobile grain-drying unit. Muk.-elev.prom.22 no.12:3-5 D '56.
(MLRA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov ego pererabotki (for Demidov, Lutkin, Demin, Malis and Petrenko). 2. Altayskaya kontora Zagotzerno (for Gerlakh). 3. Tekhnicheskii otdel Ministerstva khleboproduktov SSSR (for Frolov).

(Grain--Drying)

Demidov, A.R.
DEMIDOV, A.R., kandidat tekhnicheskikh nauk; LUTKIN, N.I., kandidat tekhnicheskikh nauk; DEMIN, G.S., kandidat tekhnicheskikh nauk; PETRENKO, A.A., inzhener.

ZA-40 grain cleaning unit. Sel'khoz mashina no.10:22-25 0 '57.
(MLRA 10:9)

(Grain--Cleaning)

DEMIDOV, A., inzh.; DEMIN, G., inzh.; LUTKIN, N.^I, inzh.; MORGUN, A., inzh.

Adjustment and regulation of the ZA-40 grain cleaning machine.

Muk-elev. prom. 24 no.6:17-19 Je '58.

(MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov
yego pererabotki (for Demidov, Demin, Lutkin). 2. Gor'kovskiy
mashinostroitel'nyy zavod (for Morgun).
(Grain--Cleaning)

LUTKOV, A.

Fastening the sheathing by means of rag pins; Gunboat Repair
Yard. Inform.sbor.TSNIIMF no.26:84 '58. (MIRA 13:4)

1. Kanonerskiy sudoremontnyy zavod.
(Shipyards--Equipment and supplies)

LUTKOV, A.

Mechanization of calking operations; Gunboat Repair Yard.
Inform.sbor.TSNIIMF no.26:85 '58. (MIRA 13:4)

1. Kanonerskiy sudoremontnyy zavod.
(Shipyards--Equipment and supplies)
(Calking)

LUTKOV, A.

Marking cargo hold hatch covers with an electric branding device; Gunboat Repair Yard. Inform.sbor.TSNIIMF no.26:101
'58. (MIRA 13:4)

1. Kanonerskiy sudremontnyy zavod.
(Shipyards--Equipment and supplies)

COUNTRY : USSR
 CATEGORY : General Biology. B
 Genetics. Plant Genetics.
 ABS. JOUR. : RZhBiol., No.5, 1959, No. 19150
 AUTHOR : Lutkov, A. I., Admiral'skaya, S. A.
 INST. : Institute of Oil and Ether-Oil Technical Crops.
 TITLE : Somatic Mutations of Peppermint.

ORIG. PUB. : V sb.: Kratkiy Otchet o nauchno -issled. rabote
 Vses. n.-i. in-ta maslichn. i ofiromaslichn.*
 ABSTRACT : Obtaining of spontane somatic mutations of
 plantal pubescence in allopolyploid peppermint
 is described. In vegetative reproduction all
 grafted shoots resulted in a monotype progeny.
 Ninety-one mutants were obtained from 21,560
 plants. In addition, other changes of somatic
 tissues were established which affected the
 coloring of the leaves, influenced the aroma,
 etc.; however, the progeny was not analyzed as
 to those changes. -- B. F. Kozhevnikov

Card:

1/1

*Kul'tur za 1956 g, Krasnodar, "Sov.Kuban",
 1957, 198, 111

LUTKOV, A. N.

Agriculture.

"Mass Production of Tetraploid Flax Plants by Colchicine Treatment,"

SO: Dok. AN, 22, No. 4, 1939. Lab. of Genetics, Inst. of Plant Industries, 1939-.

112

The artificial induction of polyploid gametes by treatment with low temperatures and chloroform. A. N. Lukov. *Bull. Applied Botany, Genetics Plant Breeding* (C. S. S. R.), Ser. 11, No. 7, 127-48 (in English 149-50) (1937). Temp. and chloroform treatments of plants at the time of meiosis produce artificially polyploid forms. J. S. Joffe

ASB 55A METALLURGICAL LITERATURE CLASSIFICATION

LUTKOV, A.N.

USSR/General Biology. Genetics

B-5

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 98948

Author : Lutkov A.N.

Inst : All-Union Scientific Research Institute of
Oleaginous and Ethereal Cultures

Title : Experimental Findings in Allopolyploid Form of
Peppermint *Mentha Piperita* L.

Orig Pub : V sb.: Kratkiy otchet o nauchno-issled. raboto
Vses. n.-i. in-ta maslichn. i ofiromaslichn.
kul'tur za 1956 g. Krasnodar, "Sov. Kuban'", 1957,
112-115

Abstract : As a result of an 0.025% colchicine solution in-
fluence upon the graft root system during some
8 days, the allopolyploid forms of peppermint
had been obtained. By the way of multiple graft-
ing off in changed shoots, it is possible to
obtain up to 80% polyploids. From the pepper-
ning population low in olive ($2n=72$) with the

Card : 1/2

LUTKOV, A.N.

Results achieved and outlook for introducing new essential oil
plants. Trudy Bot.inst.Ser.6 no.7:68-73 '59.
(MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR (BIN),
Leningrad,
(Aromatic plants)

LUTKOV, A.N.

New peppermint varieties and the outlook for extending their
cultivation to new regions. Trudy Bot.inst.Ser.6 no.7:107-100
'59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR (BIN),
Leningrad.

(Peppermint)

LUTKOV, A.N.

Libanotis transcaucasica Schischk. as a new source of geraniol, its
variability and adaptation to cultivation. Trudy Bot.inst.Ser. 5
no.6:226-249 '60. (MIRA 13:6)
(Meadow saxifrage)
(Geraniol)

LUTKOV, A.N., kand.biologicheskikh nauk

Polyploid sugar beets claim the first place. Nauka i zhizn' 29
no.4:46-48 Ap '62. (MIRA 15:7)

1. Zaveduyushchiy laboratoriyey poliploidii Instituta tsitologii
i genetiki Sibirskogo otdeleniya AN SSSR.
(SUGAR BEETS--VARIETIES) (POLYPLDIDY)

LUTKOV, A.N.

Polyploidy and its significance in the essential oil plants.
Trudy MOIP. Otd.biol 5:260-273 '62. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(POLYPLOIDY) (AROMATIC PLANTS)

LUTKOV, A.N.; PANIN, V.A.; PANINA, Ye.B.; KARTASHEVA, Z.P.;
SHCHIPACHEVA, E.N.

Polyploid sugar beets. Priroda 52 no.11:59-61 '63.
(MIRA 17:1)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN
SSSR, Novosibirsk.

DOBRETSOVA, T.B.; LUTKOV, A.N.; TAYZHOS, A.M.

Spontaneous polyploid and haploid super beet forms among wild
plants. Dokl. AN SSSR 160 no.2:454-457 Ja '65.

(MIRA 1:4)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR.
Submitted May 30, 1964.

DOBRETSOVA, T.B.; LUTKOV, A.N.; MANZHOS, A.M.

Spontaneous polyploid and haploid forms of twin sugar beet plants,
Dokl. AN SSSR 164 no.4:921-924 O '65. (MIPA 18:10)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSI.
Submitted July 20, 1964.

ROZENFIE'D, V.S., inzh.; KRICHEVETS, V.I., inzh.; LUTKOV, B.G., inzh.

Automativ level gage. Mekh. stroi. 20 no.6:20-21 Je '63.
(MIRA 16'5)
(Level indicators)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29873

Author : Nikitin, B.L., Lutkova, I.N.

Inst : -

Title : The Effect of Soil Electrification on the Development of Cotton.

Orig Pub : Byul. nauchn.-tekhn. inform. Tsentr. genet. lavor. im. I.V. Michurina, 1956, vyp. 2, 46-50

Abstract : Study was made of the effect of a low current (1.2 v. at 10 mm.) gotten from a conductor, connecting electrodes of zinc and carbon plates which were placed in the soil with 10 and 5 m. spaces between them. The cotton plant on the beds which were subjected to electrification, increased its speed of growth somewhat and temporarily its cold resistance. The first generation of seeds raised under electrofication were quicker in ripening and yielded bolls nearly twice as large as the control plants.

Card 1/1

LUTKOVA, I. N.

IOBANOV, P.; BREZHNEV, D.; OL'SHANSKIY, M.; LYSENKO, T.; LISAVENKO, M.;
SINYAGIN, I.; YAKUSHKIN, I.; PREZENT, I.; VARUNTSYAN, I.; KOLESNIKOV,
V.; YEVTVSHENKO, A.; ZASYADNIKOV, T.; ALISOV, M.; UTEKHIN, A.;
GORSHEV, I.; BELOKHOROV, I.; VIDENIN, K.; KARPOV, G.; CHERNENKO, S.;
BAKHAREV, A.; TIKHONOVA, A.; KUZ'MIN, A.; BUZULIN, G.; TOLMACHEV, I.;
LYSYUK, Ye.; KHARITONOVA, Ye.; KUSHNIRENKO, M.; NOVOPAVLOVSKAYA, N.;
ZHIRONKIN, I.; KATSURA, O.; KIRYUKHIN, I.; NIKITIN, B.; TSVETAYEVA, Z.;
ARKHIPOV, B.; OSTAPENKO, V.; IVANOV, V.; BUTUZOV, V.; LUTKOVA, I.;
TSVETAYEVA, Z.; ARKHIPOV, B.; OSTAPENKO, V.; IVANOV, V.; BUTUZOV, V.;
LUTKOVA, I.

P.N. IAKovlev; obituary. Agrobiologiya no.6:119 N-D '57.

(MIRA 10:12)

(IAkovlev, Pavel Nikanorovich, 1898-1957)

LUTKOVA, I.N.

Soil electrization as a factor influencing the development of
plants. Trudy TSGL 6:385-395 '57. (MIRA 12:10)
(Plants, Effect of Electricity on) (Cotton)

LUTKOVA, I.N.

Role of the zinc electrode in treating soils with electric current.
Fiziol. rast. 6 no.4:486-487 J1-Ag '59. (MIRA 12:10)

L.I.V. Michurin Central Genetics Laboratory, Michurinsk.
(Plants, Effect of electricity on)
(Electrodes, Zinc) .

LUTKOVA, I.N.; OLESHKO, P.M.

Role of trace elements in soil electrization. Biul. nauch. inform.
TSGL no.7/8:175-181 '59. (MIRA 13:1)
(Trace elements)
(Plants, Effect of electricity on)

LUTKOVA, I.N.

Some changes in the development of plants under the influence of
electricity on soil. Trudy TSGL 7:266-284 '61. (MIRA 15:10)
(Plants, Effect of electricity on)

LUTKOVA, I.N.; OLESHKO, P.M.

Effect of electric current on the stratification of cherry seeds. Fiziol. rast. 12 no.2:238-241 Mr-Apr '65.

(MIRA 18:6)

1. Tambovskiy pedagogicheskiy institut, laboratoriya biofiziki.

LUTKOVA, N. I.

Cand Bio Sci, Diss -- "Effect of electrification of soil on the growth and development of agricultural plants". Voronezh, 1961. 22 pp. with ill, 19 cm (Min of Higher and Inter Spec Educ RSFSR. Voronezh State U), 200 copies, Not for sale (KL, No 9, 1961, p 180, No 24312).
/61-52322/

LUTKOVA, V. I.

AID P - 1273

Subject : USSR/Chemistry

Card 1/1 Pub. 119 - 2/5

Author : Lutkova, V. I. (Moscow)

Title : Furfurole as raw material for synthesizing intermediates for plastics

Periodical : Usp. khim., 23, no. 7, 821-830, 1954

Abstract : Possible uses of furfurole are reviewed. By choosing suitable catalysts, pressures and temperatures, the hydrogenation of furfurole may be carried out to prepare desired products, of which the following are mentioned: furan, tetrahydrofuran, γ -butyrolactone and dihydropyran. 67 references (15 Russian: 1933-1952).

Institution : None

Submitted : No date

~~Y. I.~~ LUTKOVA, V. I.

USSR :

Polymers of three-membered rings containing oxygen.
A. A. Berlin. *Doklady Akad. Nauk*, 23, 887-89 (1984).—Review
of polyethers derived from epoxy compounds, with 27
references. G. M. Kozlov.

Epoxide as a raw material for synthesis of plastic materials.
V. I. Lutkova. *Doklady Akad. Nauk*, 23, 821-83 (1984).—Review of the chemistry of epoxide with 67 references.
G. M. Kozlov.

LUTKOVA, V.I.; KUTSENKO, N.I.; ITKINA, M.I.

Opening of the furanidine ring by acid chlorideanhydrides. Zhur.
ob.khim.25 no.11:2102-2104 0 '55. (MIRA 9:4)

1.Nauchno-issledovatel'skiy institut plasticheskikh mass, Moskva.
(Anhydrides) (Furan)

LUTKOVA, N. I.

5
Poly(vinyl chloride) plasticizers. V. I. Lutkova, N. I. Kutsenko, and L. I. Gorskaya. U.S.S.R. 164,461, Dec. 28, 1958. Plasticizers for poly(vinyl chloride) are obtained by heating univalent fatty acids of C_8-C_{12} compn. or their salts with dichloro derivs. of glycols, e.g. dichlorobutane or dichlorobutylate, and the ester thus obtained is sepd. in the usual manner.
M. Hosh

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LUTKOVA V. I.

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0

✓ Preparation of succinic acid and its ester. V. I. Lutkova
and N. N. Shmagina. *Zhur. Priklad. Khim.* 29: 1415-6
(1956).—To 200 ml. HNO₃ (55%) was added at 25–30° a
few drops of tetrahydrofuran and after the reaction had
commenced, the flask was cooled with ice to keep the temp.
at about 25–30° while 30 g. tetrahydrofuran was added; after
8 hrs. the mixt. was allowed to crystallize, yielding 60%
(CH₃CO₂H)₂, which after washing with dil. HNO₃ m. 183°.
Azeotropic esterification with alic. (average C.) in (CH₃Cl).

Chem

2

3 hrs. the mixt. was allowed to crystallize, yielding 65%
(CH₃CO₂H)_n, which after washing with dil. HNO₃, m.p. 133°.
Azeotropic esterification with alic. (average C₁₁) in (CH₂Cl)₂
with p-MeC₆H₄SO₃H as catalyst gave the mixed esters, b.p.
225°, d₄ 0.9150, n_D²⁰ 1.4510. The product is suitable for
plasticizer use.

G. M. Kosolapoff

mm
peak

AUTHORS: Lutkova, V. I., Berezina, B. B. 79-28-5-32/69

TITLE: ~~Synthesis of Some Bifunctional Compounds With Sulfide Sulfur~~
 Synthesis of Some Bifunctional Compounds With Sulfide Sulfur
 in the Molecule (Sintez nekotorykh bifunktsional'nykh soyedi-
 neniy s sul'fidnoy seroy v molekule)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5,
 pp. 1265 - 1266 (USSR)

ABSTRACT: Dinitriles, diamines and dicarboxylic acids with sulfide
 sulfur in the molecule can be of interest as intermediate
 products in the synthesis of polyamides, polyurethanes and
 polyesters. It is known that the synthesis of some compounds
 of this group can be realized through the δ -chlorovaleronitril
 (Reference 1). Data on this synthesis are insufficient; there
 are no descriptions of the syntheses and properties of the ob-
 tained products and the syntheses are described only schemati-
 cally. The present investigation was carried out in order to
 elaborate the methods for the syntheses of δ -chlorovaleroni-
 trile, di-(5-nitrile-tetramethylene)-, di-(4-carboxytetramethy-
 lene)- and di-(5-aminopentamethylene)-sulfide. δ -chlorovalero-
 nitrile was produced from a mixture of 65 gr KCN, 254 gr 1,4-di-

Card 1/2

79-28-5-32/69

Synthesis of Some Bifunctional Compounds With Sulfide Sulfur in the Molecule

chlorobutane and 200 gr dinitrile of adipinic acid at 113-140°C (mixing for 10-12 hours). Di-(4-nitriletetramethylene)-sulfide was synthesized from a mixture of 30 gr sodiumsulfide (9 times H₂O), 45 gr ε-chlorovaleronitrile, 100 gr diethyleneglycol and 10 mg water at 120°C (mixing for 6 hours). Di-(4-carboxytetramethylene)-sulfide of a mixture of 24.5 gr di-(4-nitriletetramethylene)-sulfide and 100 mg of concentrated hydrochloric acid (heating at 100°C for 4 hours). Di-(5-aminopentamethylene)-sulfid was obtained from 20 gr di-(4-nitriletetramethylene)-sulfide, dissolved in 200 ml of waterless ethylalcohol and bit-by-bit, added 40 gr of metallic sodium (during boiling). There are 2 references, none of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass
(Scientific Research Institute for Plastics)

SUBMITTED: April 15. 1957

Card 2/2

5(1)

SOV/26-59-4-19/43

AUTHOR:

Lutkova, V.I., Candidate of Chemical Sciences

TITLE:

Furfurole (Furfurol)

PERIODICAL:

Priroda, 1959, Nr 4, p 86 (USSR)

ABSTRACT:

The author points out that there are good prospects of obtaining furfurole from waste products of agriculture and the wood-pulp industry. Furfurole is widely used for synthesizing organic compounds because of its great reaction capability. Methods of hydrogenizing organic compounds have been developed which make it possible to obtain dozens of valuable substances from furfurole, e.g. such important products as furyl alcohol and tetrahydrofuran. The author lists the most important basic products obtained from furfurole describing their importance in industry.

ASSOCIATION:

Nauchno-issledovatel'skiy institut plastmass (Moskva)
(Scientific Research Institute of Plastics)(Moscow)

Card 1/1

5(1)

06213

SOV/64-59-6-5/28

AUTHORS: Moshkin, P. A., Lutkova, V. I., Pertsov, L. D., Kalinkin, S. F.

TITLE: Method for the Separation of Tetrahydrofuran From Reaction Gases

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 6, pp 484 - 486 (USSR)

ABSTRACT: A new method has been developed by NIIPM, by which furan is not separated from the gas mixture after the decarbonylation of furfurole but in which the whole gas mixture is carried on to hydrogenation (Ref 19). The latter takes place on a nickel catalyst, whereupon the gas is cooled to room temperature. In this process part of the tetrahydrofuran is separated. The rest of the tetrahydrofuran remains in the waste gases from which CO₂ is removed; the waste gases are introduced into the hydrogenation cycle and thus act as a kind of carrier gas saturated with tetrahydrofuran (at room temperature). The decarbonylation of furfurole (Fig 1: scheme) is carried out by the method described in reference 20. The catalyst was obtained from a nickel-aluminum alloy (1 : 1) by leaching out 40% of the aluminum in an appropriate column. The hydrogenation of furan (in the gas mixture) took place in a tube reactor (Fig 2: scheme

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Method for the Separation of Tetrahydrofuran
From Reaction Gases

06213

SOV/64-59-6-5/28

of the unit) at a temperature of $110-130^{\circ}$ and an excess pressure of 1.5 - 2 m water column. After the separation of tetrahydrofuran the CO_2 -containing gas was carried through a potash solution by means of an RMK-2 gas blower and thus CO_2 was removed. The boiling temperature of the rectified tetrahydrofuran was $64-66^{\circ}$, density $D_{20}^0 = 0.888$, and the refractive index $n_D^{20} = 1.4044$. There are 2 figures and 20 references, 7 of which are Soviet.

Card 2/2

LUTKOVA, V.I.; SHMAGINA, N.N.

Preparation of 2,5-furandicarboxylic acid and its dimethyl
ester from furfurole. Plast.massy no.4:56-57 '60.
(MIRA 13:7)

(Furoic acid) (Furaldehyde)

MOSHKIN, P.A.; LUTKOVA, V.I.; RAZUMOVA, N.N.; PERTSOV, L.D.; KALINKIN, S.F.

Production of the disodium 3,6-endoxohexahydrophthalate.(endothal).
Khim.prom. no.4:237-238 Ap '61. (MIRA 14:4)

(Oxabicycloheptanedicarboxylic acid)

KUREK, N.N.; LUTKOVSKAYA, T.A.; KUREK, A. I.

Quartziferous rocks in the Rudnyy Altai. Inform. sbor. VSEGEI
no.9:53-59 '59. (MIRA 13:12)
(Altai Mountains--Quartzite)

LUTKOVSKAYA, T.A.; SOKRATOV, G.I.; YAKUBOVICH, V.S.

Sedimentary and volcanic sedimentary formations, intrusive complexes, and metallogenetic zones in the southwestern part of the Zaysan geosyncline. Trudy VSEGEI 103:59-83 '64
(MIRA 17:8)

KUREK, N.N.; LUTKOVSKAYA, T.A.; KUREK, A.I.

Hydrothermal alternation of rocks of the Zmeinogorsk deposit in the
Altai. Trudy VSEGEI 60:191-200 '61. (MIRA 15:3)
(Altai Mountains--Rocks, Crystalline and metamorphic)

LUTKOVSKAYA, T.A.

Role of enclosing rocks in the formation of some complex metal
deposits in eastern Transbaikalia. Trudy VSEGEI 60:201-210 '61.
(MIRA 15:3)

(Transbaikalia--Ore deposits)

LUTKOVSKAYA, T.A.; SOKRATOV, G.I.; KAGARMANOV, A.Kh.; YAKUBOVICH, V.S.

Metallogeny of the Kalba range. Sov. geol. 7 no.10:79-87 0 '64.
(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut
i Leningradskiy gornyy institut.

ACC NR: AP/005236

(A)

SOURCE CODE: UR/0145/66/000/009/0148/0152

AUTHOR: Zhuchin, V. N. (Candidate of technical sciences); Nikitin, G. S. (Candidate of technical sciences); Sinel'nikov, Yu. I. (Candidate of technical sciences); Lutkovskiy, S. I. (Engineer)

ORG: None

TITLE: Drawing alloys with low deformability at moderate temperatures

SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1966, 148-152

TOPIC TAGS: metal drawing, wire, alloy steel, metal recrystallization

ABSTRACT: Experiments are conducted on drawing R-18 and EI-474 alloys with preheating. An industrial single-draft unit of the drum type was used for producing wire from 8 mm to 3 mm in diameter at drawing rates of 44.2, 57.7 and 87.5 m/min. The wire was heated in a lead bath and passed through draw plates made from VK-6 alloy. The drawing stress $K=P/S_k$ was taken as the basic characteristic of the process where P is the drawing force in kg, and S_k is the cross sectional area of the wire after drawing in mm^2 .

This criterion was studied as a function of such factors as partial and overall degree of deformation, temperature of the metal, rate of drawing, the working angle of the draw plate, the initial diameter of the wire and lubrication. The experimental results

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UDC: 621.771.3

ACC NR: AP7005236

show that partial reductions of 20-25% should be used for R-18 steel when drawing preheated wire while the corresponding figure for EI-474 steel is 25-30% as against 12-18% partial reductions used in cold drawing of these grades of steel. Overall reductions without using intermediate recrystallizations may reach 45-55% for R-18 and 65-70% for EI-474. Recrystallization is used after each draft in the cold drawing process. The average temperature of the wire before reaching the draw plate should be 375-285°C, the lead bath temperature being determined from experimental curves as a function of drawing rate and wire diameter. The optimum working angles of the draw plates for these grades of steel vary between 18 and 20°. The optimum lubricant is a mixture of graphite and soap in a ratio by volume of 7:1. The article was presented for publication by Academician A. I. Tselikov, Professor at the Moscow Technical College. Orig. art. has: 5 figures, 1 table.

SUB CODE: 13, 11/ SUBM DATE: 15Dec64/ ORIG REF: 04

Card 2/2

SOV/124-58-2-1930

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 58 (USSR)

AUTHOR: Lutkovskiy, S. V.

TITLE: On the Subject of the Establishment of the Temperature in a Shallow Section of the Sea During the Period Immediately Preceding its Icing Over (K voprosu o formirovanii temperatury morya na melkovod'ye v predledostavnyy period)

PERIODICAL: Tr. Mor. gidrofiz. in-ta AN SSSR, 1956, Vol 7, pp 135-152

ABSTRACT: A solution of the problem of the temperature distribution in a shallow sea with a given radiation balance at its surface and a constant temperature at a prescribed depth of the sea bottom. The eigenfunctions of the two-layer problem of the heat conductivity between the sea and the sea bottom are constructed for constant thermal-diffusivity coefficients. The results of the calculations are correlated with the actual temperature variations in the Azov and Aral Seas during the period from June 1 through December 30. The agreement is found to be satisfactory.

Ye. M. Dobryshman

Card 1/1

LOTKOVSKIY, S.V.
LOTKOVSKIY, Sergey Vasil'yevich; ORLOV, B.P., otvetstvennyy red.; VOYT, S.S.,
red.izd-va; RYLINA, Yu.V., tekhn.red.

[The formation of ice in lakes, rivers and seas] Obrazovanie l'da
v ozerakh, rekakh i moriakh. Moskva, Izd-vo Akad.nauk SSSR,
1957. 114 p. (MIRA 11:2)
(Ice on rivers, lakes, etc.)

LUTKOVSKIY, S.V.

Present status of the problem of ice formation. Trudy VGI 12:117-153
'58. (MIRA 11:11)

(Ice on rivers, lakes, etc.)

LUTKOVSKIY, S.V.

Role of winds in the formation of ice sheets in the sea. Trudy MGI
12:154-170 '58. (MIRA 11:11)

(Ice on rivers, lakes, etc.) (Winds)

LUTKOVSKIY, S.V.

Certain considerations with regard to improved forecasting of
ice conditions. Trudy MGI 12:171-180 '58. (MIRA 11:11)
(Ice on rivers, lakes, etc.)

SHADRICHEV, V.A., doktor tekhn. nauk, prof.; LUTKOVSKIY, V.I., inzh.
retsenzent

[Repair of motor vehicles] Remont avtomobilei. Moskva,
Mashinostroenie, 1965. 614 p. (MIRA 18:11)

RESPOND, Stanislaw; LUTMAN, Roman

The Silesian Institute in Opole; its creation, present
state and outlook for development. Nauka Pol 9 no.4:171-177.
C-D '61.

1. Przewodniczący Rady Naukowej Instytutu Śląskiego.
2. **Dyrektor** Instytutu Śląskiego w Opolu, ul Lubeszycka 3 (for Lutman).

ROSPOND, Stanisław, prof.; LUTMAN, Roman, doc.

The Silesian Institute in Opole; its creation, present state and outlook for development. Nauka Pol 9 no.4:171-177 O-D '61.

1. Przewodniczący Rady Naukowej Instytutu Śląskiego (for Rospond).
2. Dyrektor Instytutu Śląskiego w Opolu, ul Luboszycka 3 (for Lutman).

LUTMANOVA, S.N.

Carriage for lathes. Stan.1 instr. 28 no.2:41 F '57. (MLRA 10:5)
(Lathes)

28(2)

SOV/115-59-8-5/33

AUTHOR: Lutmanova, S. N.

TITLE: A Wall Thickness Gage

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 8, p 13 (USSR)

ABSTRACT: The author suggested a wall thickness gage which is basically a slide gage similar in design to a tooth gage. There is 1 diagram.

Card 1/1

LUTNICKI, W

POL. 2

Distribution of phrenic nerves in diaphragm of pig. W. Lutnicki
(Ann. Univ. Al. Curie-Skłodowska, 1953, 8, 259-284). In 63%
the innervation is symmetrical, in 27% it is asymmetrical, branches
from the left phrenic nerve running to the right side, and in 14%
cases both phrenic nerves send branches to the opposite sides of the
diaphragm. The lumbar segment of the fleshy part of the dia-
phragm is asymmetrical in structure. E. M. RATTENBURY.

LUTNICKI, Witold

SURNAME, Given Names

Country: Poland

Academic Degrees: Docent dr.

Department of Animal Anatomy (Katedra Anatomii Zwierząt), Veterinary Division
Affiliation: (Wydział Weterynarii), Higher Agricultural School (WSR-- Wyższa Szkoła Rolnicza), Lublin; Director: Prof Marian CHOMIAK, dr

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 8, August 1961, pp 479-483

Data: "Castration of Nutria in Theory and Practice."

LUTNYSKI, Roman; RAGINIS, Zofia; ZIEMICHOD, Tadeusz; KOZMINSKA, Alicja

Focus of Q fever in Krakow. Przegl. epidem., Warsz. 11 no.1:69-79
1957.

1. Z Kliniki Chorob Zakaznych A. M. w Krakowie. Dyrektor: doc. dr
M. Bilek. Z Klinik Chorob Zakaznych A. M. w Krakowie. Kierownik:
prof. dr J. Kostrzewski.

(Q FEVER, epidemiology,
in Poland (Pol))

LUTOCKA, L.

"Economical Use and Maintenance of Woodcutting Implements in the USSR" p. 137,
(POLANA, Vol. 9, no. 6, June 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

LUTOCKA, L.

A proposal for the standardization of woodcutting tools
and its use in Czechoslovakia. p. 371.
SPORNÍK, RADA LESNICTVÍ. Praha.
Vol. 29, no. 6, June 1956

SOURCE: EEAL - LC Vol. 5 No. 10 Oct. 1956

LUTOCKA, L.

Analysis of operations which change when the handling of lumber is transferred to
lumber yards. p. 217. (SBORNIK RADA LESNICTVI. Praha) (Vol. 30, no. 3, Mar. 1957)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, No. 7, July 1957. Uncl.

LUTOKHIN, D.I.

136-2-5/22

AUTHOR: Okunev, A.I., Usachev, N.M., Lutokhin, D.I., Kurts, V.V.,
Redotova, E.I. and Vostryakov, A.A.

TITLE: Results of Industrial Tests on the Smelting of Roasted
Collective Copper-Zinc Concentrates. (Rezultaty promy-
shlennykh ispytaniy plavki obozhzhennykh kollektivnykh
medno-tsinkovykh kontsentratsiy)

PERIODICAL: Tsvetnyye Metally, 1957, no.2, pp. 22 - 31 (USSR)

ABSTRACT: The use of flotation for concentrating many Ural copper-
zinc ores has led to the production of copper concentrates
containing as much as 10-12% with copper contents of 8-10%.
The aim of the present work was to test the smelting of roasts
of such concentrates in a full-scale reverberatory furnace to
give a zinc slag. The experimental furnace used was at the
Sredneural'skiy Works and had a hearth area of about 8 m²,
chrome-magnesite walls and hearth and silica roof and was fired
with coal dust. The following main results were obtained in
2.5 - 3 months' work with concentrates containing 7-9% Cu
and 6 - 15% Zn to give slags with 14-15% Zn. The results of
laboratory investigations on zinc distribution between slag
and matte in relation to their compositions were confirmed.
When mattes contained 40 - 50% Cu, the zinc content in the
slag was about 1.6 - 1.8 times greater than in the matte. The

1/3

136-2-5/22
Results of Industrial Tests on the Smelting of Roasted Collective
Copper-zinc Concentrates.

Information on productivity, fuel rates and behaviour of
refractions is included.

3/3 There are 3 figures, 5 tables and 3 references, of which 1 is
Slavic.

ASSOCIATION: Unipromed' and the Sredneural'skiy Copper Smelting
Works. (Unipromed' i Sredneural'skiy Medeplavilnyy
Zavod)

AVAILABLE: Library of Congress

MYASNIKOV, P.A.; OKUNEV, A.I.; LUTOKHIN, D.I.

Cyclone smelting of copper-zinc concentrates. Trudy Inst. energ.
AN Kazakh. SSR 2:274-284 '60. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy
teplotekhniki (for Myasnikov). 2. Ural'skiy nauchno-issledovatel'skiy
i proyektnyy institut mednoy promyshlennosti (for Okunev). 3. Sred-
neural'skiy medeplavil'nyy zavod (for Lutokhin).
(Smelting furnaces) (Copper-zinc alloys)

LEONOV, L.M.; SAVIN, I.V.; AKHIN, D.I.; SMIRNOV, V.I.

Smelting raw charges with a high zinc content. TSvet. met. 36
no.1:16-21 Ja '63. (MIRA 16:5)
(Copper--Metallurgy) (Zinc)

BOBRINSKIY, V.M.; BUKATCHUK, P.D.; BURGELYA, N.K.; DRUMYA, A.V.;
KAPTSAN, V.Kh.; MAKARESKU, V.S.; NEVRYANSKIY, D.G.;
NEGADAYEV-NIKONOV, K.N.; PERES, F.S.; ROMANOV, L.F.;
ROSHKA, V.Kh.; SAFAROV, E.I.; SAYANOV, V.S.; SOBETSKIY,
V.A.; TKACHUK, V.A.; KHUBKA, A.N.; EDEL'SHTEYN, A.Ya.;
LUTOKHIN, I., red.

[Paleogeography of Moldavia] Paleogeografiia Moldavii.
Kartia, moldoveniaske, 1965. 145 p. (MIRA 18:9)

1. Otdel palenotologii i stratigrafii AN Moldavskoy SSR
(for Negadayev-Nikonov, Roshka, Romanov, Sobetskiy, Khubka).
2. Institut geologii i poleznykh iskopayemykh Gosudarstvennogo
geologicheskogo komiteta SSSR (for Bobrinskiy, Burgelya,
Nevryanskiy, Tkachuk, Edel'shteyn).
3. Opornaya seysmostantsiya
AN Moldavskoy SSR (for Drumya).
4. Gosudarstvennyy proizvod-
stvennyy geologicheskoy Komitet Moldavskoy SSR (for Bukatchuk,
Kapsan, Safarov).

STRONE, I.S.; KHOCHENKO, R.V.; OSTROVSKIY, L.L.; LUTOKHIN, I.,
red.

[For the motor-vehicle driver] Voditeliu avtomobilia. Ki-
shinev, Kartia moldoveniaske, 1965. 165 p. (MIRA 18:10)

LUTOKHIN, I., red.; POSAZHENNIKOVA, Ye., red.

[Economic problems of capital construction in the Moldavian S.S.R.; materials] Ekonomicheskie problemy kapital'nogo stroitel'stva v Moldavskoi SSR; materialy. Kishinev, Kartia moldoveniaske, 1963. 267 p. (MIRA 17:11)

1. Kishinevskaya gorodskaya nauchno-ekonomicheskaya konferentsiya po stroitel'stvu, Kishinev, 1963.

KILIMNIK, T.V.; KHOCHENKO, R.V.; LUTOKHIN, I., red.

[Adjustment of the devices of systems and mechanisms of
motor vehicles] Regulirovka priborov sistem i mekhanizmov
avtomobilei. Kishinev, Kartia moldoveniaske, 1964. 106 p.
(MIRA 18:10)

LUTOKHIN, S.I.

Pharmacological study of adonitoxin. Farm. 1 toks. 26 no.62
692-697 N-D '63 (MIRA 1882)

1. Laboratoriya farmakologii (rukovoditel' - dotsent kand. med.
nauk M.A. Angarskaya) Khar'kovskogo nauchno-issledovatel'skogo
khimiko-farmatsevticheskogo instituta.

LUTOKHIN, S.I. (Veterinary Doctor, Khar'kov Veterinary Institute)

"Problem of treating experimental toxoplasmosis..."
Veterinariya, vol. 39, no. 3, March 1962 pp. 60

ANGARSKAYA, M.A.; LUTOKHIN, S.I.; KHADZHAY, Ya.I.

Standardization of cardiac glycosides on pigeons. Farm.
i toks. 25 no.2:193-198 Mr-Apr '62. (MIRA 15:6)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut (direktor - dotsent M.A. Angarskaya).
(CARDIAC GLYCOSIDES)

ANGARSKAYA, M.A.; LUTOKHIN, S.I.; KHADZHAY, Ya.I.

Standardization of cardiac glycosides by the use of pigeons.
Farm. 1 toks. 28 no.5:621-624 S-O '65.

(MIRA 18:12)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut. Submitted July 3, 1964.

LUTOKHIN, S. N.

Mbr., Baykov Experimental Sta. for Melon Culture, -c1948-.

Chemistry.

"The Influence of Boron on the Formation of the Fruit Pulp in Watermelons,"

SO: Dok. AN, 56, No. 5, 1947;

"The Substitution of Siegnette's Salts for Glycerine in the Determination of Sugar,"

SO: Zhur. Anal. Khim., 3, No. 3, 1948.

110

CA

Induced parthenocarpy in *Cucurbita maxima* caused by phytohormones in glycerol. S. N. Lutokhin. *Doklady Akad. Nauk S.S.S.R.* 58, 1625-6 (1947).—A max. of 40% induced examples of parthenocarpy was produced in pumpkins by moistening with mixts. of 1-C₁₀H₁₇ClH₂CO₂H, indolebutyric acid, 2,4-dichlorophenoxy- α -butyric acid, and indolylpropionic acid; for best results a mixt. of all 4 at 0.5% concn. is needed. G. M. Kosolapoff

7

Replacing Rochelle salt with glycerol in the determination of sugar. S. N. Lutokhin and O. A. Kuz'menko. *Zhur. Anal. Khim.* 3, 196-7(1948).—The described method is a modification of the Fresenius method in which glycerol replaces K Na tartrate in the Fehling soln. The latter is made of Cu_2SO_4 09.2, KOH 200.0, and glycerol 366.0 g. per l. To det. the sugar content by this method take 10 ml. sample contg. not over 5 g. of sugar per l. and add in concns. indicated above, 3 ml. glycerol soln., 9 ml. KOH soln., 10 ml. Cu_2SO_4 soln., and 10 ml. H_2O . Finish the analysis by the Fresenius method. M. Hirsch

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

7

New rapid method for clearing solutions. S. N. Luto-
khin and N. A. Byvshikh (I. V. Michurin Fruit and Vge-
table Expt. Sta., Michurinsk). *Zhur. Anal. Khim.* 5,
p219-43(1950).—The method consists in using as a clear-
ing aid in analyzing plant and fruit exts. a mixt. of $ZnSO_4$
and $K_4Fe(CN)_6$ which react according to $3ZnSO_4 +$
 $2K_4Fe(CN)_6 = K_2Zn_3[Fe(CN)_6]_2 + 3K_2SO_4$. The
complex ferrocyanide forms a gel which ppt. all the
impurities without affecting the sugars in any way. In
subsequent filtration it acts also as a filtering aid. This
prepn. is more effective and cheaper than $Pb(OAc)_2$ which
is often used.
M. Hosh

PASHKEVICH, Oleg Nikolayevich, kand.ekonom. nauk; LUTOKHINA,
Eleonora Alekseyevna; BARKAN, V.A., red.; ZIMA, Ye.G.,
tekhn. red.

[When you work for society you work for yourself] Trud dlia
obshchestva - trud dlia sebia. Minsk, 1962. 31 p. (Obshche-
stvo po rasprostraneniui politicheskikh i nauchnykh znani
Belorusskoi SSR, no.17) (MIRA 15:11)
(Work) (Incentives in industry)

BABKO, A.K.; LUTOKHINA, N.V.

Colored magnesium adsorption compounds used in photometric analysis. Zhur.anal.khim, 17 no.4:416-421 J1 '62. (MIRA 15:3)

1. T.G.Shevchenko Kiev State University.
(Magnesium compounds--Spectra)

BABKO, A.K.; LUTOKHINA, N.V.

Conditions for the photometric determination of magnesium as
adsorption colored compounds. Zhur.anal.khim. 17 no.8:922-925 N '62.
(MIRA 15:12)

1. T.G.Shevchenko Kiev State University and A.I.Pirogov Vinnitsa
Medical Institute.

(Magnesium—Analysis) (Photometry)

IL'FOKHINA, N.S.

Attention given by students to psychological problems during practice teaching. Vop. psikhol. 4 no.1:168-170 Ja-F '58. (MIRA 11:3)

1. Kafedra pedagogiki i psikhologii Azerbaydzhanskogo pedagogicheskogo instituta russkogo yazyka i literatury im. I.F. Akhundova.
(Student teaching)

BABKO, A. K.; LUTOKHINA, N. V.

Photometric determination of magnesium in the presence of
iron. Ukr. khim. zhur. 28 no.3:389-393 '62. (MIRA 15:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

(Magnesium---Analysis) (Iron---Analysis)

LUTOMSKA, Ksenia, Gdansk, ul. Rokossowskiego 35.

Antibiotics. Czas.stomat. 8 no.5:199-206 May '55.
(ANTIBIOTICS, ther.use)

LUTOMSKA, Ksenia

Side effects of some antibiotics used in dentistry. Czas.stomat
8 no.8:333-342 Aug '55.

1. Z Zakladu Stomatologii Zachowawczej A.M. w Gdansk Kierownik:
doc. Dr. K.Lutomska Gdansk-Wrzeszcz, Rokossowskiego 35.

(ANTIBIOTICS, injurious effects
compl.after use in dentistry)
(DENTISTRY
antibiotics in, inj,side eff.)

LUTOMSKA, Ksenia

Significance of fluor in prevention of dental caries. Polski tygod.
lek. 10 no.19:630-632 9 May '55.

1. Z Zakladu Stomatologii Zachowawczej Akademii Medycznej w Gdansk;
kierownik: prof. dr med. K. Lutomska) Gdansk, Zaklad Stomatologii
(DENTAL CARIES, prevention and control
fluorine)
(FLUORINE, ther.use
dental caries, prev.)

LUTOMSKA, Ksenia

Incidence of dental caries in children in relation to fluorine concentration in the water. Polski tygod.lek.10 no.21:684-688 23 My '55.

1. Z Zakladu Stomatologii Zachowawczej Akademii Medycznej w Gdansk; kierownik: prof.dr med. K. Lutomska) Gdansk, Zaklad Stomatologii Zachowawczej A.M.

(DENTAL CARIES, in infant and child
in Poland, relation to fluorine concentration in
water)

(FLUORINE
in water, relation to dental caries in child, in Poland)

LUTOMSKA, Ksenia

Influence of fluorine contents in water on the dentition in children. *Pediat.polska* 30 no.4:313-320 Apr '55.

1. Z Zakladu Stomatologii Zachowawczej A.M. w Gdansk. Kierownik: doc. dr med. K. Lutomska; GDANSK, Al. Rokossowskiego 35 m.
3.

(FLUORINE
in water, eff. on dentition in child)
(TEETH, effect of drugs on
fluorine in water, in child)

LUTOMSKA, Ksenia, Gdansk, Al. Rokossowskiego 35 m. 3.

Fluorine in stomatology. Pediat.polska 30 no.4:367-371 Apr '55.

(FLUORINE, ther. use
dental caries prev.)

(DENTAL CARIES, prev. and control
fluorine)

LUTOMSKA, Ksenia

Prevention of dental caries by fluoridation in Switzerland, Austria
& Poland. Pediat. polska 32 no.12:1419-1424 Dec 57.

1. Z Zakladu Stomatologii Zachowawczej A. M. w Gdansk. Kierownik:
doc. K. Lutomska

(FLUORIDATION

in Switz., Austria & Poland, prev. of dent. caries (Pol))

LUTOMSKA, Ksenia; KONINSKA, Danuta

Effect of fluorides in water on the appearance of periodontal diseases
in adolescents. Polski tygod. lek. 16 no.26:994-997 26 Je '61.

1. Z Zakladu Stomatologii Zachowawczej A.M. w Gdansk; kierownik:
doc. dr med. Ksenia Lutomska.

(PERIODONTAL DISEASES in adolescence)
(FLUORIDATION)

LUTOMSKA, Ksenia, prof. dr. med.; KONINSKA, Danuta; POKRANT, Halina.

Prevention of dental caries with topical fluorides. Pol. tyg.
lek. 19 no.48:1850-1852 30 N'64.

1. Z Zakladu Stomatologii Zachowawczej Akademii Medycznej w
Gdansku (kierownik: prof. dr. med. K. Lutomska).

LUTOMSKA, Kaenia, prof. dr. med.; KONINSKA, Danuta; GRUSZCZYNSKA, Krys

Preventio. of dental caries in children with "Fluodar"
tablets. Pol. tyg. lek. 19 no.50:1930-1931 14 D '64

1. Z Zakladu Stomatologii Zachowawczej Akademii Medycznej
w Gdansk (Kierownik: prof. dr. med. K. Lutomska).

LUTOMSKA, Ksenia

The use of fluorides in the prevention of dental caries.
Czas. stomat. 19 no.1:1-6 Ja ' 66

1. Z Zakladu Stomatologii Zachowawczej AM w Gdansk:
(Kierownik: prof. dr. K. Lutomska).

LUTOMSKI, J.

POLAND/Chemical Technology - Chemical Products and Their Application. Synthetic and Natural Medicinal Substances. Galelicals and Medicinal Forms. H.

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 36020

Author : Borkowski, B., Lutowski, J.

Inst : Institute of Medicinal Plants.

Title : Substances Conditioning the Sedative Action of Medicinal Valerian. Part I. The Comparative Study of Different Preparations Obtained from Specific Raw Materials. Part II. The Biological Activity of Ethereal Oils, Alkaloids and Piro methyl Ketones.

Orig Pub : Biul. Inst. rosl. leczn., 1958, 4, No 2, 115-125; 126-132.

Abstract : There were investigated, by the biological evaluation method, 20 preparations, obtained by means of extraction

Card 1/2

H-46

KACZMAREK, Feliks, dr.; KOWALEWSKI, Zdzislaw, dr.; LUTOMSKI, Jerzy, dr.;
WROCINSKI, Tadeusz, dr.

On the preparing process and the action of diuretic preparation from dry leaf-bases of *Allium Cepa* L. *Biuletyn Ziel leczn* 7 no.2:157-166 Je '61.

1. Instytut Przemyslu Zielarskiego, Poznan.